

Claims

What is claimed is:

1. A PDP, which has a front panel and a back panel, which is set at a fixed distance from this front panel;

the front panel has two or more sustain scan electrodes arranged in parallel on the above-mentioned front panel surface, two or more data electrodes arranged in the direction which crosses over the above-mentioned sustain scan electrodes, and two or more partitions that are arranged between the above-mentioned front panel and the above-mentioned back panel in order to divide the electric discharge cell;

the above-mentioned sustain scan electrode has a transparent electrode and a bus electrode arranged on the above-mentioned transparent electrode;

the above-mentioned bus electrode is formed sequentially from the side that touches the above-mentioned transparent electrode with a double layer composition of a black ground layer and a non-black electric conduction layer;

the above-mentioned bus electrode is formed by firstly exposing light on a black color positive type photosensitive paste by using the above-mentioned non-black electric conduction layer as a pattern

formation mask, and secondly the above-mentioned paste is applied to make the above-mentioned black ground layer.

2. A PDP as claimed in claim 1, wherein the above-mentioned black ground layer is formed at first by being deposited on the entire surface, and secondly, by being dried and, thirdly, by being partially stiffened at the part which touches the above-mentioned selectively-deposited non-black electric conduction layer with a chemical reaction, and fourthly, being partially removed from the non-stiffened black ground layer.

3. A PDP as claimed in claim 1, wherein the above-mentioned black ground layer is formed at first by being deposited on the entire surface, and secondly, being dried and, thirdly, being selectively deposited the above-mentioned non-black electric conduction layer, and partially removing the above-mentioned black ground layer that is not covered by the above-mentioned non-black electric conduction layer by physical or chemical etching.

4. A PDP, which has a front panel and a back panel, which is set at a fixed distance from this front panel;

the front panel has a number of two or more sustain scan electrodes arranged in parallel on the above-mentioned front panel surface, two or more data electrodes arranged in the direction which crosses over the

above-mentioned sustain scan electrodes, and two or more partitions that are arranged between the above-mentioned front panel and the above-mentioned back panel in order to divide an electric discharge cell;

the above-mentioned sustain scan electrode is formed sequentially from the side that touches the above-mentioned front panel with a double layer composition of a black ground layer and a non-black electric conduction layer;

the above-mentioned sustain scan electrode is formed by firstly exposing light on a black color positive type photosensitive paste by using the above-mentioned non-black electric conduction layer as a pattern formation mask, and secondly the above-mentioned black ground layer is applied to make the above-mentioned black ground layer.

5. A PDP as claimed in claim 4, wherein the above-mentioned black ground layer is formed at first by being deposited on the entire surface, and secondly, being dried and, thirdly, being partially stiffened at the place that is touched by the above-mentioned selectively deposited non-black electric conduction layer with a chemical reaction, and fourthly, being partially removed at the non-stiffened black ground layer.

6. A PDP as claimed in claim 4, wherein the above-mentioned black ground layer is formed at first by being deposited on the entire surface,

and secondly, being dried and, thirdly, being selectively covered by the above-mentioned non-black electric conduction layer, and partially removing part of the above-mentioned black ground layer that is not covered by the above-mentioned non-black electric conduction layer by physical or chemical etching.

7. A method for fabricating a plasma display panel, comprising the following steps: A transparent electrode is deposited and patterned on a front panel; a black color positive type photosensitivity paste is deposited on both surfaces of the transparent electrode and the portion of the front panel that is not covered by the transparent electrode; the black color positive type photosensitivity paste is dried; a non-black electric conduction layer is selectively deposited by a screen printing method on the deposited black color positive type photosensitivity paste; the part of the black color positive type photosensitivity paste that is not covered by the non-black electric conduction layer is exposed to light; the exposed black color positive type photosensitivity paste is removed by an application process; the front panel is dried.

8. A method for fabricating a plasma display panel, comprising the following steps: A transparent electrode is deposited and patterned on the front panel; a black color positive type photosensitivity paste is selectively deposited on the transparent electrode; the black color positive type photosensitivity paste is dried; a non-black electric

conduction layer is selectively deposited on the deposited black color positive type photosensitivity paste by a screen printing method; the part of the black color positive type photosensitivity paste that is not covered by the non-black electric conduction layer is exposed to light; the exposed black color positive type photosensitive paste is removed by an application process; the front panel is dried.

9. A method for fabricating a plasma display panel, comprising the following steps: A transparent electrode is deposited and patterned on the front panel; a black color paste is deposited on both surfaces of the transparent electrode and the part of the front panel that is not covered by the transparent electrode; the black color paste is dried; a non-black electric conduction layer is selectively deposited by a screen printing method on the deposited black color paste; the black color paste is partially stiffened at the part that is touched by the above-mentioned selectively deposited non-black electric conduction layer with a chemical reaction; a part of the non-stiffened black ground layer is removed.

10. A method for fabricating a plasma display panel, comprising the following steps: A transparent electrode is deposited and patterned on the front panel; a black color paste is selectively deposited on the transparent electrode; the black color paste is dried; a non-black electric conduction layer is selectively deposited by a screen printing method on the deposited black color paste; the black color paste is partially stiffened

at the part that is touched by the above-mentioned selectively deposited non-black electric conduction layer with a chemical reaction; a part of the non-stiffened black ground layer is removed.

11. A method for fabricating a plasma display panel, comprising the following steps: A transparent electrode is deposited and patterned on the front panel; a black color paste is deposited on both surfaces of the transparent electrode and the part of the front panel that is not covered by the transparent electrode; the black color paste is dried; a non-black electric conduction layer is selectively deposited by a screen printing method on the deposited black color paste; the part of the deposited black color paste which is not covered by the above-mentioned non-black electric conduction layer is removed by physical or chemical etching.

12. A method for fabricating a plasma display panel, comprising the following steps: A transparent electrode is deposited and patterned on the front panel; a black color paste is selectively deposited on the transparent electrode; the black color paste is dried; a non-black electric conduction layer is selectively deposited by a screen printing method on the deposited black color paste; the part of the deposited black color paste which is not covered by the above-mentioned non-black electric conduction layer is removed by physical or chemical etching.

13. A method for fabricating a plasma display panel, comprising the following steps: A black color positive type photosensitive paste is deposited on the entire surface of the front panel; the black color positive type photosensitive paste is dried; a non-black electric conduction layer is selectively deposited on the deposited black color positive type photosensitive paste by a screen printing method; the part of the black color positive type photosensitive paste that is not covered by the non-black electric conduction layer is exposed to light; the exposed black color positive type photosensitive paste is removed by an application process; the front panel is dried.

14. A method for fabricating a plasma display panel, comprising the following steps: A black color positive type photosensitivity paste is selectively deposited on the front panel; the black color positive type photosensitivity paste is dried; a non-black electric conduction layer is selectively deposited by a screen printing method on the deposited black color positive type photosensitivity paste; the part of the black color positive type photosensitivity paste that is not covered by the non-black electric conduction layer is exposed to light; the exposed black color positive type photosensitivity paste is removed by an application process; the front panel is dried.

15. A method for fabricating a plasma display panel, comprising the following steps: A black color paste is deposited on the entire surface of

the front panel; the black color paste is dried; a non-black electric conduction layer is selectively deposited by a screen printing method on the deposited black color paste; a part of the black color paste that is touched by the selectively deposited above-mentioned non-black electric conduction layer is stiffened with a chemical reaction; the non-stiffened black color paste is removed; the front panel is dried.

16. A method for fabricating a plasma display panel, comprising the following steps: A black color paste is selectively deposited on the front panel; the black color paste is dried; a non-black electric conduction layer is selectively deposited by a screen printing method on the deposited black color paste; the part of the black color paste which is touched by the above-mentioned selectively deposited non-black electric conduction layer is stiffened with a chemical reaction; the non-stiffened black color paste is removed; the front panel is dried.

17. A method for fabricating a plasma display panel, comprising the following steps: A black color paste is deposited on the entire surface of the front panel; the black color paste is dried; a non-black electric conduction layer is selectively deposited as a stripe pattern by a screen printing method on the deposited black color paste; a part of the black color paste which is not covered by the above-mentioned non-black electric conduction layer is removed by physical or chemical etching.

18. A method for fabricating a plasma display panel, comprising the following steps: A black color paste is selectively deposited in a stripe pattern on the front panel; the black color paste is dried; a non-black electric conduction layer is selectively deposited in a stripe pattern by a screen printing method on the deposited black color paste; the part of the black color paste which is not covered by the above-mentioned non-black electric conduction layer is removed by physical or chemical etching.